

Title (en)

Hysteresis compensation in a coordinate measurement machine

Title (de)

Hystereseaussgleich in einer Koordinatenmessmaschine

Title (fr)

Compensation d'hystérésis dans une machine de mesure de coordonnées

Publication

EP 1801537 A3 20090114 (EN)

Application

EP 06256506 A 20061221

Priority

US 31638605 A 20051222

Abstract (en)

[origin: EP1801537A2] A single-scale, single-drive coordinate measuring machine that compensates for hysteresis error caused by friction at the non-driven end of the bridge. The coordinate measuring machine is calibrated to estimate hysteresis effects at one or more distances from the scale. Measurements of workpieces are adjusted based on the calibration data and the distances of the carriage from the scale at the point of the measurements. The scale and the drive system may be positioned on opposite guideways.

IPC 8 full level

G01B 21/04 (2006.01)

CPC (source: EP US)

G01B 21/045 (2013.01 - EP US)

Citation (search report)

- [XY] WO 9913289 A1 19990318 - GIDDINGS & LEWIS [US]
- [Y] US 2003106229 A1 20030612 - JORDIL PASCAL [CH], et al
- [E] WO 2007128444 A1 20071115 - ZEISS IND MESSTECHNIK GMBH [DE], et al
- [A] DE 102004007968 A1 20050915 - ZEISS IND MESSTECHNIK GMBH [DE]
- [A] EP 1376053 A2 20040102 - ZEISS CARL [DE], et al

Cited by

CN102445123A; KR101466924B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1801537 A2 20070627; EP 1801537 A3 20090114; EP 1801537 B1 20190220; US 2007144022 A1 20070628; US 2009150108 A1 20090611; US 7249421 B2 20070731; US 7669344 B2 20100302

DOCDB simple family (application)

EP 06256506 A 20061221; US 31638605 A 20051222; US 76279407 A 20070614